



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Confirmation No.: 4510

LEE et al.

Atty. Ref.: 912-26

Serial No. 09/697,123

Group Art Unit: 1634

Filed: October 27, 2000

Examiner: D.B. Johannsen

FOR: RPOB GENE FRAGMENTS AND A METHOD FOR THE DIAGNOSIS AND
IDENTIFICATION OF MYCOBACTERIUM TUBERCULOSIS AND NON-
TUBERCULOSIS MYCOBACTERIAL STRAINS

U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

**EXCLUSIVE SUBSTITUTE POWER OF ATTORNEY
AND EXCLUSIVE PROSECUTION HEREAFTER BY
ASSIGNEE UNDER 37 C.F.R. §§ 1.36, 3.71 AND 3.73**

Sang-Nae CHO and Hyeyoung LEE, being the owner of all right, title and interest in the above-identified patent application, hereby revoke all previous powers of attorney in this case, if any, and hereby appoint the attorneys of Customer Number 23117 individually and collectively their attorneys to prosecute this application and to transact all business in the Patent and Trademark Office in connection therewith, and with the resulting patent.

Sang-Nae CHO and Hyeyoung LEE also authorize Nixon & Vanderhye to act and rely solely on instructions communicated from the person, attorney, firm or other organization sending instructions to Nixon & Vanderhye on behalf of the owner.

Certificate Under 37 C.F.R. §3.73(b)

Sang-Nae CHO having an address of No. 111-602, Hansin Apartment 929, Mok-6-dong, Yangchon-ku, 158-759 Seoul, Republic of Korea and Hyeyoung LEE having an address of No. 101-1205, Jangmee Apartment, Dangye-6-dong, Wonju-si 220-939 Kangwon-do, Republic of Korea, state that they are the assignees of the entire right, title and interest in the above-identified patent application by: (a) assignment from the inventors to ERUME BIOTECH CO., LTD. recorded in the U.S. Patent and Trademark Office on October 27, 2000 at reel 013906, frame 0865; (b) change of name from ERUME BIOTECH CO., LTD. to XENISS LIFE SCIENCE CO., LTD. recorded in the U.S. Patent and Trademark Office on October 10, 2001 at reel 012474, frame 0684; and (c) assignment from XENISS LIFE SCIENCE CO., LTD. to the present assignees Sang-Nae CHO and Hyeyoung LEE by virtue of an Assignment submitted herewith.

Sang-Nae Cho

Sang-Nae CHO

Dec. 7, 2003

Date

Won-Jin Hong

Witnessed by: Won-Jin Hong

December 7, 2003

Date

Hyeyoung Lee

Hyeyoung LEE

Dec. 7, 2003

Date

Won-Jin Hong

Witnessed by: Won-Jin Hong

December 7, 2003

Date



0217-00097

SGC

MARCH 14, 2002

SHANKS & HERBERT
TONI-JUNELL HERBERT
TRANSPORTOMAC PLAZA
1033 N. FAIRFAX STREET
ALEXANDRIA, VA 22314

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SHANKS & HERBERT

Chief Information Officer
Washington, DC 20231
www.uspto.gov



101956063A

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/10/2001

REEL/FRAME: 012474/0684

NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

ERUME BIOTECH, CO., LTD

DOC DATE: 07/03/2001

ASSIGNEE:

XENISS LIFE SCIENCE CO., LTD.
5TH FLOOR, ILHEUNG BUILDING, 1490-
25
SEOCHO-DONG, SEOUL-KU, SEOUL

REPUBLIC OF KOREA

SERIAL NUMBER: 09697123

FILING DATE: 10/27/2000

PATENT NUMBER:

ISSUE DATE:

MARCUS KIRK, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

cg



1-1702

To the Honorable Commissioner of Patents

101956063 original documents or copy thereof.

1. Name of conveying party(ies):

Name: Erume Biotech, Co., Ltd
Address: 4th Floor, Erume Building,
807-3 Bangbae-dong
Seocho-ku, Seoul 137-060,

2. Name and address of receiving party(ies):

Name: Xeniss Life Science Co., Ltd.
Address: 5th Floor, Ilheung Building, 1490-25
Seocho-dong, Seoul-ku, Seoul

Country: Korea

Country: Republic of Korea

Additional conveying party(ies) attached? Yes NoAdditional receiving party(ies) attached? Yes No

3. Nature of Conveyance:

Assignment
 Security Agreement
 Other: _____

Merger
 Change of Name

Execution Date(s): July 3, 2001

4. Application number(s) or patent number(s): Additional numbers attached? Yes No

A new application, the specification filed herewith.
 Application No. 09/697,123 : filed: October 27, 2000
 Patent No. : filed:

5. Name and address of party to whom correspondence concerning document should be mailed: 6. Total number of applications and patents involved: 1

Name: Shanks & Herbert
Attn: Toni-Junell Herbert
Street Address: Transpotomac Plaza
1033 N. Fairfax Street
Alexandria, VA 22314

7. Total Fee (37 C.F.R. § 3.41): \$40.00
 Enclosed
 Authorized to be charged to deposit account:
8. Deposit Account No.: _____
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To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Shelly Guest Cermak, 39, 571

Typed Name, Reg. No.

S. G. Cermak
Attorney/Signature1-17-02
Date

OMB No. 0651-0011 (ext. 4/94)

Total number of pages including cover sheet, attachments and document 6

C. 10 2001
PATENT

101876953

SHEET

10-10-01

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

JC 10/10/01
ENT & TRADEMARK OFFICE

1. Name of conveying party(ies):
 Name: Erume Biotech, Co., Ltd
 Address: 4th Floor, Erume Building,
 807-3 Bangbae-dong
 Seocho-ku, Seoul 137-060,

Country: Korea

2. Name and address of receiving party(ies):
 Name: Xeniss Life Science Co., Ltd.
 Address: 5th Floor, Ilheung Building, 1490-25
 Seocho-dong, Seoul-ku, Seoul

Country: Republic of Korea

Additional conveying party(ies) attached? Yes NoAdditional receiving party(ies) attached? Yes No

3. Nature of Conveyance:

Assignment
 Security Agreement
 Other: _____

Merger
 Change of Name

Execution Date(s): _____

4. Application number(s) or patent number(s): Additional numbers attached? Yes No

A new application, the specification filed herewith.
 Application No. 09/697,123 ; filed: October 27, 2000
 Patent No. _____ ; filed: _____

5. Name and address of party to whom correspondence concerning document should be mailed: 6. Total number of applications and patents involved: 1

Name: Shanks & Herbert
 Attn: Toni-Junell Herbert
 Street Address: Transpotomac Plaza
 1033 N. Fairfax Street
 Alexandria, VA 22314

7. Total Fee (37 C.F.R. § 3.41): \$40.00
 Enclosed
 Authorized to be charged to deposit account:
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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Toni-Junell Herbert 34,348
 Typed Name, Reg. No.

Attorney Signature

Date

OMB No 0651-0011 (ext. 4/94)
 Total number of pages including cover sheet, attachments and document 5

1/17/2001 DBYRME 00000107 09697123

FC:581

40.00a Documents to be recorded with required cover sheet information to:
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 Washington, D.C. 20231

현무 법무법인 正 現

(제41호 서식)

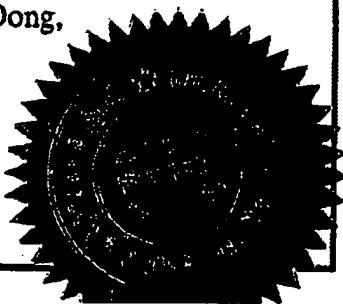
전화 : (02)501-6651
(02)501-6652~4
FAX : (02)3452-9954

Registered No. 2001 - 1696

NOTARIAL CERTIFICATE

CHUNG HYUN LAW OFFICES, P.C. & NOTARY PUBLIC

Poong Lim Bldg No. 703 & 801, 823-1, Yeoksam-Dong,
Kangnam-Ku, Seoul, Korea



(Translation)

Register Number	170065	CERTIFIED ABSTRACT OF THE REGISTER OF CORPORATION
Registration Number	110111-1700651	
Name of Corporation : Biologix Co.		Changed Registered
Erume Biotech Co., Ltd.		2000.03.29. Changed 2000.03.31. Registered
Xeniss Life Science Co., Ltd.		2001.05.21. Changed 2001.05.22. Registered
Head Office : 5th Fl. Ilheung Bldg., 1490-25 Seochodong, Seocho-ku, Seoul, Republic of Korea		2000.11.11. Changed 2000.11.13. Registered

Matter of officer	
Director: Jae-Hyouk No	
Dohwa 3Jigu Woosung apartment No. 11-305, 83 Dohwadong, Mapo-ku, Seoul, Republic of Korea	
1999. 05. 20. Inauguration	1999. 05. 20 Registered
1999. 05. 20. Inauguration	1999. 05. 20 Registered
Director: Jae-Hyouk No (611003-1046916)	
Dohwa 3Jigu Woosung apartment No. 11-305, 83 Dohwadong, Mapo-ku, Seoul, Republic of Korea	
1999. 05. 20. Inauguration	1999. 05. 20 Registered
Director: Jae-Hyouk No (611003-1046916)	
1999. 05. 20. Inauguration	1999. 05. 20 Registered

Reverse Side

This document is an abstract of the register of the corporation

Dated this 3rd day of July, 2001

Seoul Civil District Court

Commercial Registry Registrar Haeng Kyun CHOI, Officially Sealed

등기번호	170065
등록번호	110111-1700651

등기부 초본 (말소사항 포함)

상 호	주식회사 바이오토직스	변경
		등기
	주식회사 이뮨바이오텍	2000.03.29 변경
		2000.03.31 등기
	주식회사 제니스라이프사이언스	2001.05.21 변경
		2001.05.22 등기
본 점	서울 서초구 서초동 1490-25 일흥빌딩 5층	2000.11.11 변경
		2000.11.13 등기

임원에 관한 사항

대표 이사 노재혁 서울 마포구 도화동 83 도화3지구우성(아) 11동 305호

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1999년 05월 20일 취임 1999년 05월 20일 등기

대표이사 노재혁 611003-1046916 서울 마포구 도화동 83 도화3지구우성(아) 11동 305호

1999년 05월 20일 취임 1999년 05월 20일 등기

이사 노재혁 611003-1046916

1999년 05월 20일 취임 1999년 05월 20일 등기

--- 이 하 여 뱍 ---

수수료 1.200원 영수함

서울지방법원 상업등기소

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서기 2001년 07월 03일

서울지방법원 상업등기소

등기관 최행근

* 음영이 포함되어 기재된 사항은 말소된 등기사항입니다.

704004201516300077011101012011018CABDBFB5BCB120 2 1200 1발행일:2001/07/03

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2001. 9. 8.

8 th Sep. 2001

서약인 정 수진

(인)

Signature

등부 2001년 제 1696 호

Registered No. 2001 - 1696

인 증

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위 정수진은
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Su-Jin, Jung Personally
appeared before me, confirmed that
the attached translation is true to
the original and subscribed his/her
name.

2001년 9월 8일

This is hereby attested on this
8 th day of Sep. 2001
at this office.

이 사무소에서 위 인증한다.

인가 법무법인 正現

서울·강남구 역삼동 823의1
풍림빌딩 703, 801호

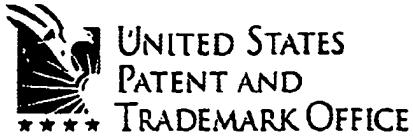


공증담당변호사

Chung Hyun Law Office, P.C. & Notary Public
Poong Lim Bldg No.703 & 801,
823-1, Yeoksam-Dong, Kangnam-Ku
Seoul, Korea

Attorney at Law

2001년 9월 8일
This office has been authorized
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of February 1996 (Law No.81)



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AUGUST 27, 2003

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Deputy Under Secretary of Commerce For Intellectual Property and
Deputy Director of the United States Patent and Trademark Office
Washington, DC 20231
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ALEXANDRIA, VA 22314



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SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/27/2000

REEL/FRAME: 013906/0865

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

LEE, HYEYOUNG

DOC DATE: 10/21/2000

ASSIGNOR:

PARK, YONG KIL

DOC DATE: 10/21/2000

ASSIGNOR:

BAI, GILL-HAN

DOC DATE: 10/21/2000

ASSIGNOR:

KIM SANG-JAE

DOC DATE: 10/21/2000

ASSIGNOR:

CHO, SANG-NAE

DOC DATE: 10/21/2000

ASSIGNOR:

KIM, YUEN

DOC DATE: 10/21/2000

ASSIGNOR:

PARK, HEE JUNG

DOC DATE: 10/21/2000

ASSIGNEE:

ERUME BIOTECH CO., LTD.
4TH FLOOR, ERUME BUILDING, 807-3,
BANGBAE-DONG, SEOCHO-KU
SEOUL, 137-060, REPUBLIC OF KOREA

SERIAL NUMBER: 09697123
PATENT NUMBER:

FILING DATE: 10/27/2000
ISSUE DATE:

MARGARET LASALLE, PARALEGAL
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned: Hye Young LEE, Young Kil PARK, Gill-Han BAI, Sang-Jae KIM, Sang-Nae CHO, Yeun KIM and Hee Jung PARK, the undersigned hereby sell(s) and assign(s) to ERUME BIOTECH CO., LTD. (the Assignee) his/her entire right, title and interest

check applicable box(es) for the United States of America (as defined in 35 U.S.C.
Sec. 100),
 and throughout the world

in the invention(s) known as rpoB gene fragments and a method for the diagnosis and identification of Mycobacterium tuberculosis and non-tuberculosis

Mycobacterial strains

for which application(s) for patent in the United States of America has (have) been executed by the undersigned on _____ (also known as United States Application No. _____, Filed _____), in any and all applications thereon in any and all Letters Patent(s) therefor, and in any and all reissues, extensions, renewals, reexaminations, divisions and continuations of such applications or Letters Patent(s) to the full end of the term or terms for which such Letters patent(s) issue, such entire right, title and interest to be held and enjoyed by the above-named Assignee the same as they would have been held and enjoyed by the undersigned had this assignment and sale not been made.

The undersigned agree(s) to execute all papers necessary in connection with the application(s) and any continuing, divisional, reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning the application(s) or any continuation, division, reissue or reexamination thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned hereby covenant(s) that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict therewith.

The undersigned hereby grant(s) Mark R. Shanks Registration No. 33,781, Toni-Junell Herbert, Registration No. 34,348, David W. Woodward, Registration No. 35,020, Keith D. Hutchinson, Registration No. 43,687, Maria L. Maebius, Registration No. 42,967, Mark J. Pino, Registration No. 43,858, Deanna L. Baxam, Registration No. 45,266, Joseph G. Contrera, Registration No. 44,628, Chalin A. Smith, Registration No. 41,569, Shelly Guest Cermak, Registration No. 39,571, Patrick Stanzione, Registration No. 40,434, Suzannah K. Sindhy, Registration No. 43,172, of SHANKS & HERBERT, TransPotomac Plaza, 1033 N. Fairfax St., Suite 306, Alexandria, Virginia 22314, power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date: Oct 21, 2000 Signature of Inventor: Hyeyoung Lee
Hyeyoung LEE

Date: Oct 21, 2000 Signature of Inventor: Young, K. Park
Young Kil PARK

Date: Oct. 21/2000 Signature of Inventor: Bae Gil Han
Gill-Han BAI

Date: Oct. 21, 2000 Signature of Inventor: Hyi Kim
Sang-Jae KIM

Date: Oct. 21, 2000 Signature of Inventor: Sang-ye Cho
Sang-Nae CHO

Date: Oct. 21, 2000 Signature of Inventor: Yeun Kim
Yeun KIM

Date: Oct. 21, 2000 Signature of Inventor: Park Heejung
Hee Jung PARK